

ABSTRACT

5 A filter membrane, methods of making such filter
membrane and apparatus employing such filter membrane are
disclosed, in which the filter membrane is a monolithic
polymeric membrane that includes a polymeric filter layer
including a micron-scale precision-shaped pores and a
polymeric support layer that has a precision-shaped
porous support structure for the filter layer. Several
10 methods are disclosed for making such a membrane using
micromachining techniques, including lithographic, laser
ablation and x-ray treatment techniques. Several filter
apparatus employing such a membrane are also disclosed.

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